

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
11 August 2005 (11.08.2005)

PCT

(10) International Publication Number
WO 2005/072344 A3

(51) International Patent Classification:
G06F 15/173 (2006.01) *G06F 15/16* (2006.01)

(21) International Application Number:
PCT/US2005/002369

(22) International Filing Date: 27 January 2005 (27.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/765,756 27 January 2004 (27.01.2004) US

(71) Applicant (for all designated States except US): **CISCO TECHNOLOGY, INC.** [US/US]; Mail Stop 10/2/1, 300 East Tasman, San Jose, CA 95164 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SALMI, Robert, James** [US/US]; 14845 Jacob Lane, Minnetonka, MN 55345 (US). **ROWLEE, Michael, Robert** [US/US]; 1675 Randolph Avenue, St. Paul, MN 55105 (US). **BARRON, Thomas, P.** [US/US]; 3538 Blaisdell Avenue South, Minneapolis, MN 55408 (US). **STANLEY, Stuart** [US/US]; 16560 North Hillcrest Court, Eden Prairie, MN 55346 (US). **PETERSON, Haldane, Roy** [US/US]; 5240 West 102 Street, Apartment 212, Bloomington, MN 55437 (US). **WARD, David, Delano** [US/US]; 301 221st

Avenue, Somerset, WI 54025 (US). **BERGUM, David, Iver** [US/US]; 5067 Lyndale Avenue South, Minneapolis, MN 55419-1215 (US).

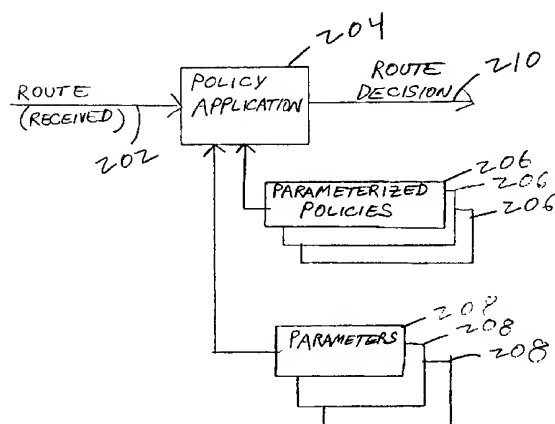
(74) Agents: **MCCRACKIN, Ann, M.** et al.; Schwegman, Lundberg, Woessner & Kluth, P.A., P.O. Box 2938, Minneapolis, MN 55402 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: ROUTING SYSTEMS AND METHODS FOR IMPLEMENTING ROUTING POLICY



[APPLICATION OF PARAMETERIZED POLICY]

(57) Abstract: A method and routing system paramterize a routing policy and apply the paramterized-routing policy to a route (Figure 2). Parameters are assigned to at least some policy statements of the policy. The parametrized policy may be called with paramters stored in a parameter table. In some embodiments, common blocks of the policy may identified and assigned parameter sets. A commonized routing policy may be reused with more than one policy.



WO 2005/072344 A3



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:

14 June 2007

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/02369

A. CLASSIFICATION OF SUBJECT MATTER

IPC: G06F 15/173(2006.01)
G06F 15/16(2006.01)

USPC: 709/238

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 709/238

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
DERWENT, UPPAT, USPGPUB, EPO, JPO

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P	US 6 829 347 B1 (ODIAKA) 7 December 2004 (07.12.2004) see whole document, specifically column 4, lines 5-28	1, 14, 27, 40
A, P	US 6 839 350 B1 (INOUCHI et al) 4 January 2005 (04.01.2005)	1-132
A	US 2002/0141343 A1 (BAYS) 3 October 2002 (03/10/2002)	1-132
A	US 2002/0141378 A1 (BAYS et al) 3 October 2002 (03.10.2002)	1-132
A	US 2003/0204619 A1 (BAYS) 30 October 2003 (30.10.2003)	1-132

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

14 February 2007 (14.02.2007)

Date of mailing of the international search report

19 APR 2007

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Authorized officer

George C. Neurauter, Jr.

Telephone No. 571-272-2100